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FIGURE 1-1	FIGURE 1-2	FIGURE 1-4	FIGURE 1-5
FIGURE 1.1			

	31		91 11		151 31		211 51		2717
-40	-28 AGTATIGITIGICIGITIGCCTIGIAGGGCGICATCCCTCAAGTGIATCACTTAGITCAA	20	GAGTCCTGGAATCTTTTCACATCCACTATGAACACCTCTTCACCTCCTGGCTTGCTGCTC M N T S H L L A L L L	80	CCAAAATCTCCACAAGGTGAAACAAAACCCCTGGGCACCCCATACAACTTCTCT P K S P Q G E N R S K P L G T P Y N F S	140	CCAGGATTCCGTGGACGTGTCTTCATCGTCACTTCCTACAGCATTGAG Q D S V D V M V F I V T S Y S I E	200	GGGGGTCCTGGTAACCTCTGCCTGATGTGTGACTGTGAGGCAGAAGGAGGAGGAGGAGGAGAGGAGGAGGAGGAGG
. 09-	tecctes in the second	;	TCACATCCACTATGAAC	09	GTGAAACAGAAGCAAA E N R S K I	120	CCGTGGACGTGATGGTC: V D V M V I	180	rgggtaaccictgcctg1 G N L C L N
0.81	AGTATIGITTGICTGI	-20	Gagtcctggaatctt	40	CCAAATCTCCACAAGO P K S P Q G	100	GAACATTGCCAGGATTC E H C Q D S	160	ACTGTCGTGGGGGTCCT
	-28		32		92		152		212

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FIGURE 1-3

	631 191	1	691 211		751 231		811 251		871 271
560	CTGCCCTTCCTGGCCACCACCACCTCCTCCACACACACCACTCCAAGGCT L P F L A N S I L E N V F H K N H S K A	620	CTGGAGTTCCTGGCAGATAAGGTGGTCTGTACCGAGTCCTGGCCTCACCACCGC L E F L A D K V V C T E S W P L A H H R	089	ACCATCTACACCACTTCCTGCTTCCAGTACTGCCTCCCACTGGGCTTCATCTGT T I Y T T F L L L F Q Y C L P L G F I L	740	GTCTGŤTATGCACGCĂTCTACCGGCGCCGCAGGGCCGCGTGTTTCACAAGGCC V C Y A R I Y R R L Q R Q G R V F H K G	800	ACCTACAGCTTGCGAGCTGGGCAGGTCAATGTGGTGGTGGTGGTGGTGTGTGT
540	SCCACACACATCCTGGAGAA	009	SCAGATAAGGTGGTGTAC	099	ccitcctgctccicttcca	720	GCATCTACCGCCCCGCCTGCA(780	GAĞCTGGCCACATGAAGCAC A G H M K Q
520		580		640	•	700		760	
	572 172		632		692 212		752		812. 252

FIGURE 1-4

	931 291		991 311		1051 331		1111 351		1171
860	GTGGCCTTTGCCGTGCTGCTCTGCATGTGTTCAACAGCCTGGAAGACTGGCAC V A F A V L W L P L H V F N S L E D W H	920	CATGAGGCCATCCCCACGGGAACCTCATCTTCTTAGTGTGCCACTTGCTTG	086	ATGGCCTCCACCTGCGTCAACCCATTCATGCTTTCTCAACACCAACTTCAAGAAG M A S T C V N P F I Y G F L N T N F K K	1040	GAGATCAAGGCCCTGGTGCTGACTTGCCAGAGGAGCCCCCCTGGAGGAGTCGGAGCAT E I K A L V L T C Q Q S A P L E E S E H	1100	CTGCCCCTGTCCACAGTACGGAAGTCTCCAAAGGGTCCCTGAGGCTAAGTGGCAGG
840	TCTGGCTGCCTCTGCATGT	006	TCTGCCACGGGAACCTCAT	096	TCAACCCATTCATCTATGG	1020	TGCTGACTTGCCAGCAGAGC	1080	TACATACGGAAGTCTCCAAA H T E V S K
.820	GTGGCCTTTGCCGTGCT	880	CATGAGGCCATCCCCA	940	ATGGCCTCCACCTGCG	1000	GAGATCAAGGCCCTGG1	1060	CTGCCCCTGTCCACAGI
•	872 272		932 292		992 312		1052 332		1112

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	1231 375		•
1160	CATTTAACCAGGTCTAGGTCTTCTCCCTGCCATGTCCCTTGCCAGGCTCTTC	1220	TAAGTGGCACACACCTGGGGTGGCACCACCATTCACATTCACATTCACATTCACATTCACATTCACATTCACAATTCAAATTCACAATTCAAATTCACAATTCAAAATTCAAAATTCAAAATTCAAAATTCAAAATTCAAAATTCAAAATTCAAAAATTCAAAATTCAAAATTCAAAATTCAAAATTCAAAATTCAAAATTCAAAAATTCAAAATTCAAAAAA
1140	Accaggictaggicticec	1200	• GCACACTGCAAGCTGGGGTG
1120	TCCAATCCCATTTAA S N P I *	1180	CACTTAGCTAAGTGG
	72		32

FIGURE 1-5

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RE 2-1 RE 2-3 RE 2-3	20	MVFIVTSKSI IFTLALAKGA IFTLALAKGA IFTLALAKGA	100	CLLCOPLTAY AIMCLPFTFY AVMCLPFTFV AVMCLPFTFV	150	OLITNPTGWR OLITNPRGWR OLITNPRGWR OLITNPRGWR	200	ALEFLADKVV LDAYKDKVV LAAFKDKVV
FIGURE		SEHCODSVDV MY NDDCHLPLAM II NDDCHLPLAV II NDDCHLPLAV II		ANLAFEBELD CI VNISFEBLLV AN VNISFEBLLV AV		SLVILANDERH OF SIVILANDEH OF SLVILANDEH OF SLVILANDEH OF		ENVFHKNHSK AL TDEPFONVTI TDEPFONVSI
FIGURE 2-1		SKPLGTPYNF EKNAQLLAFE E. NSPFLAFE E. NSPLLAFE		EKAMPEN LIST EMENYTIN I EST EMENYTIN EST EMENYTIN I EST		OCVSITVSIF OCVSITVSIF OCVSITVSIF OCVSITVSIF		SIPPLIANSIL SIPPLIYQVM SIPPVIYQIL SIPPVIYQIL
		LPKSPOGENR ENHSVHSNFS ENYSVHYNVS ENHSTHYNAS		CLMCVTVROK ALITITIKOK ALITITIKOK ALITITIKOK		ETLCKMSAFI EAMCKLNPFV KTMCKLNPFV ETMCKLNPFV	i	VLIMITACVL AVINYLAVAS TVINVLAVAS TVINVLAVAS
,		MNTSHLLALL MN.STLFSQV MN.STLFSRV MN.STLFSRV	51	ETVVQVLGNI VIILGVSGNI VIILGVSGNI VIILGVSGNI	101	YTINDAMIRG YTINDHWYEG YTINDHWYEG	151	PSISOAYLGE PNNRHAYVGE PNNRHAYIGE PNNRHAYIGE
		hp25a human Y1 rat Y1 mouse Y1		hp25a human Y1 rat Y1 mouse Y1		hp25a human Y1 rat Y1 mouse Y1		hp25a human Y1 rat Y1 mouse Y1

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hp25a human Y1 rat Y1 mouse Y1	201 CTESWPLAHH CFDQFPSDSH CFDKFPSDSH	RISYTTEEL RESYTTEEN RESYTTEEN RESYTTEEN	V LOVECHIGET V LOVEGPICET V LOVEGPICET	LVOYARIYRR FICYFKIVIR FICYFKIVIR	250 LOROGRVFHK LIKRRNNMMDK LIKRRNNMMDK LIKRRNNMMDK
hp25a human Y1 rat Y1 mouse Y1	GTVS.LRAGH MRDNKYRSSE IRDSKYRSSE IRDSKYRSSE	MKOVNVLVV TKRINIMILS TKRINVMLLS TKRINIMILS	MWAFAVLM IWAFAVCHI IWAFAVCHI IWAFAVCHI	PLTIENTVED PLTIENTVED PLTIENTVED	MHHEAIPICH WNHOILATCN WNHOILATCN WNHOILATCN
hp25a human Y1 rat Y1	GNITTIVCHE HNILFELLCHE HNILFELCHE HNILFELCHE	LAMASTCVNE TAMISTCVNE TAMISTCVNE	FIYGPLINTY IFYGPLINTY IFYGPLINTY IFYGPLINTY	KKEIKALVLT QRDLQFFFNF QRDLQFFFNF QRDLQFFFNF	KKEIKALVLT COOSAPLEES ORDLOFFFNF CDFRSRDDDY ORDLOFFFNF CDFRSRDDDY ORDLOFFFNF CDFRSRDDDY

FIGURE 2-3

J88
LSTVHT EVSKGBERLS GRSNPI*...
MSTMHT DVSKTSLKQA SPVAFKKINN NDDNEKI*
MSTMHT DVSKTSLKQA SPVAFKKISM N.DNEKI*
MSTMHT DVSKTSLKQA SPVAFKKISM N.DNEKV*

hp25a human Y1 rat Y1 mouse Y1

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FIGURE 3-1

FIGURE	3-1
FIGURE	3-2
FIGURE	3-3
FIGURE	3-4

-150 -170 -130 ATAGCTCTCAAGCCATAAGATATAAGTAGCTAAGAATTGTCTCCCTCTCCCTGTCCCTTG -90 -70 -110 TTCTTACCTGGTTCCATTTTACATGCCTGGACCTTTGAGTTCCATTTGTTTTGCAG -50 -30 -10 10 30 50 **AATACCTCTCATCTCATGGCCTCCCTTTCTCCGGCATTCCTACAAGGTAAGAATGGGACC** N T S H L M A S L S P A F L O G K N G T . 90 70 **AACCCACTGGATTCCCTCTATAATCTCTCTGACGGCTGCCAGGATTCGGCAGATCTGTTG** N P L D S L Y N L S D G C Q D S A D L L 150 170 130 GCCTTCATCATCACCACCTACAGCGTTGAGACCGTCTTGGGGGGTCCTAGGAAACCTCTGC YSVETVLGVLGNLC 210 230 190 TTGATATTTGTGACCACAAGGCAAAAGGAAAAGTCCAATGTGACCAACCTACTCATTGCC

T T R Q K E K S N V T N L L

FIGURE 3-2

		25	0					;	270						29	90			
A	ACC'	TGG	CCT:	rct(CTG/	ACTI	CC:	rca:	rgto	·	CA?	rcto	GCC	AGC	الاحد	ኮ ሮል(-cc:	ፐሮል፣	CCTAC
N			F	s	D	F	L	M	C	L	I	С	Q	P	L	T	V	T	Y
		310						33	30						350)			
A	CA'	rca:	rgg/	CTA	ACTO	GAJ	CTT	rcga	CGZ	AGT	ויייטויי	بالملما	·	<u>ነር</u> አኅ	ייתיבייו	የአ አ ረ	مالية	ייייייייייייייייייייייייייייייייייייי	ICCAG
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GA	CCI	CTT	CCA	CTA	CAA	CCA	CTC	TAA	GGT	TGT	GGA	GTT	TCT	GGA	AGA	CAA	GGT	TGT	CTGC
D	L	F	Н	Y	N	H ·	S	K	V	V	E	F	L	E	D	K	V	v	С
		610						c	20						-=	•			
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TT	TGT	GTC	CTG	GTC	CTC	GGA'	TCA	CCA	CCG	CCT	CAT	CTA	CAC	CAC	CTT	TCT	GCT	GCT	CTTC
																			F

FIGURE 3-3

		67	0					,	690						7	10				
CA	ATA	CTG	CGT	CCC	TCT	GGC	CTT	CAT	CCT	GGT	CTG	CTA	CAT	GCG	TAT	CTA	TCA	GCG	CCTG	
Q,	Y	С	V	P	L	A	F	I	L	V	С	Y	M	R	I	Y	Q	·R	L	
		730						7	50				_		77	0 .				
CA	GAC	GCA	GAG	GCG	TGC	GTT	CCA	CAC	GCA	CAC	TTG	CAG	CTC	ACG	AGT	GGG	GCA	GAT	GAAG	;
Q	R	Q	R	R	A	F	H	T	Н	T	C	S	S	R	V	G	Q	M	K	
		790						8	10						83	0			_	
CG	GA?	CAA	TGG	CAT	GCT	CAT	GGC	AAT	GGT	GAC	TGC	CTI	TGC	AGI	TCI	CIG	GCI	GCC	CCTG	;
R	I	N	G	M	L	M	A	M	V	T	A	F	A	V	L	W	L	P	L	
		850	ı					8	70						89	0				
CA	TG:	rgti	CAA	CAC	TCT:	'GGA	GGA	CTG	GTA	CCA	.GGA	AGC	CAI	ccc	TGC	TTG	CCA	TGG	CAAC	•
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		910)					9	30						95	50				
CI	'CA'	rcT1	·CII	GA:	GTG	ECC#	CCI	GTI	TGC	CAT	GGC	TTC	CAC	CTC	TGT	CAA	CCC	TT	CATO	-
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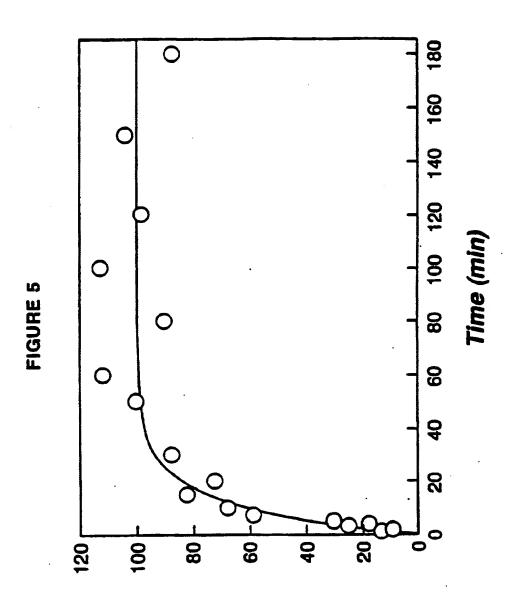
FIGURE 3-4

)	1130)	110	1					0	109		
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rgtctaggctct	AGTCAI	GT	CAT	CGT	TAA	GTC	CAA	TAG	'GGG	GAT	'GAG	TAT	ATC	GGG	CAA	TC
		*	M	v	N	s	K	S	G	M	R	M	S	G	K	s
	1190						.70	11)	150	1	
ATGCAAGCTGTG	ACACAI	'AG?	AGT	CTA	GAG	ACI	TTC	CCT:	.CAC	ACA	TCG	CTT	T T I	CAT	CGC	TC
	1250		•				30	12					ŧ	210	1	
SACTTGAAGCTT	CAAGAG	GG	GGC	ACA	CAG	GCC	'GGC	TTT	GTC	CTG	TTI	CCA	'СТС	ATC	'АТС	СТ

FIGURE 4

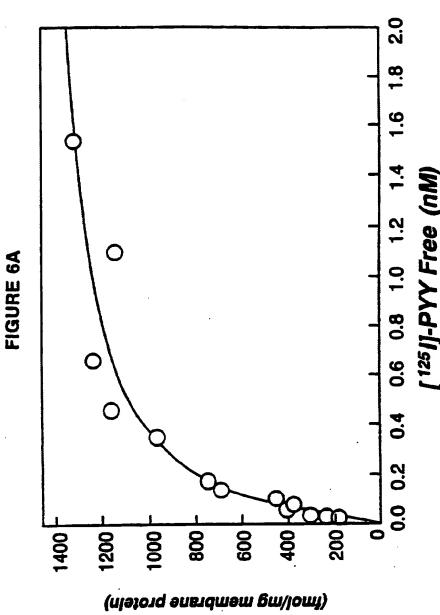
	1 .				50
Y4rat	mntshlmasl	SPAFLOGKING	TNPLDSLYNL	SDGCQDSADL	LAFIITTYSV
Y4 hum	MNTSHLLALL	LPKSPQGENR	skplgtpynf	SEHCODSVDV	MVFIVTSYSI
	51				100
	<u> </u>				- II ——
Y4rat	BTVLGVLGNL	CLIFVTTRQK	eksnytnlli	anlapsdflm	CLICOPLTVT
Y4hum	BTVVGVLGNL	CLMCVTVRQK	EKANVINLLI	anlapsdpim	CLLCQPLTAV
	101				150
		 	III -		
Y4rat	YTIMDYWIPG	EVLCKMLTFI	QCMSVTVSIL	SLVLVALERH	QLIINPTGWK
Y4hum	YTIMDYWIFG	BTLCKMSAFI	OCMSVTVSIL	SLVLVALERH	QLIINPTGWK
	151				200
	F	IV			
Y4rat	PSISQAYLGI	VVIWFISCFL	SLPFLANSIL	NDLFHYNHSK	VVBFLEDKVV
Y4hum	PSISQAYLGI	VLIWVIACVL	SLPFLANSIL	ENVFHANHSK	ALEFLADKVV
	201				250
			v		
Y4rat	CFVSWSSDHH	RLIYTTFLLL	POYCVPLAFI	LVCYMRIYQR	LORORRAFHT
Y4hum	CTESWPLAHH	RTIYTTFLLL	POYCLPLGFI	LVCYARIYRR	LQRQGRVFHK
	251				300
			vi		
Y4rat	HTCSSRVGQM	KRINGHLMAN	VTAPAVLNLP	LHVPNTLEDW	YORALPACHG
Y4hum	GTYSLRAGHM	KÖANAAN	VVAPAVLNLP	LHVPNSLEDW	HHEAIPICHG
	301				350
		- VII			
Y4rat	nliplmchlp	AMASTCVNPF	IYGPLNINFK	KDIKALVLTC	RCRPPQGEPE
V4 hora	MI TETMONIA.	AMA OTOTALDO	TVCDT MINDE	ERIENIATATA	COSADILEESE

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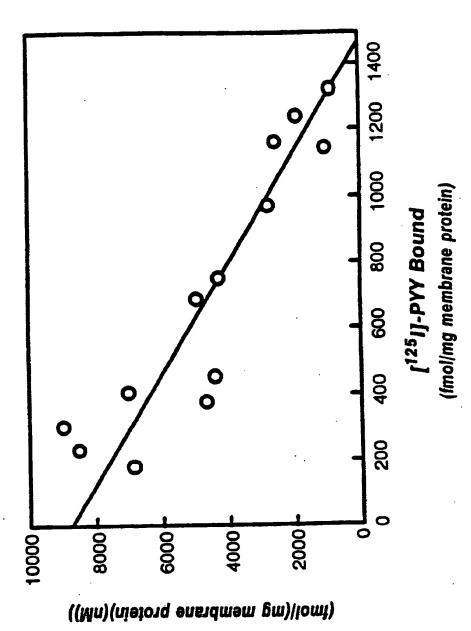
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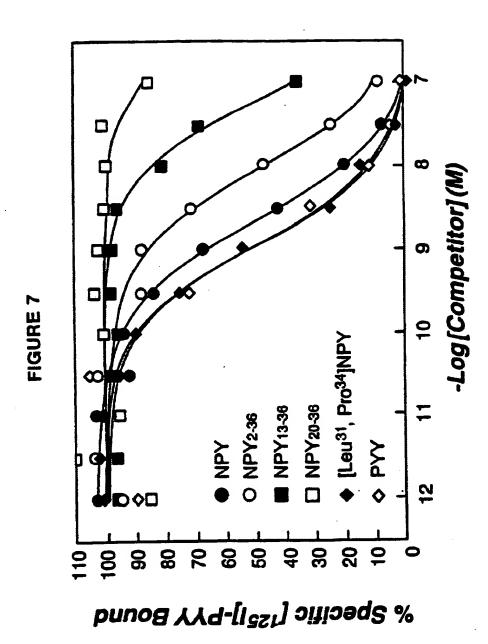
FIGURE 6B

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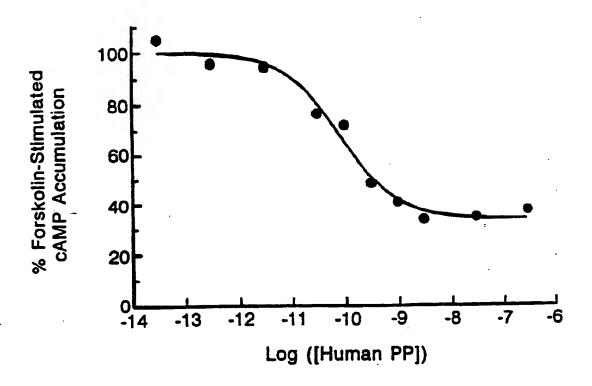
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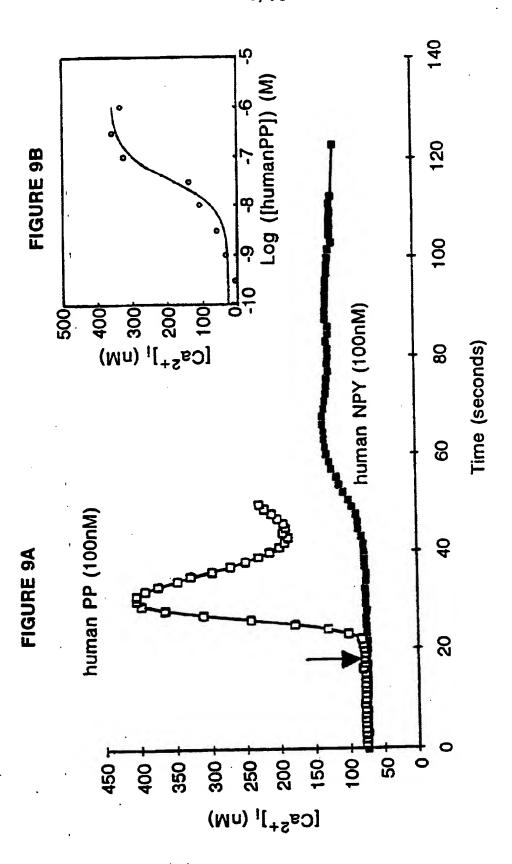


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FIGURE 8







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